

# MODLAND - Summary

- Reviewed Product list.
  - noted some post-launch products missing
  - no major changes to product list assuming projected funding levels.
  - minor changes will be forwarded by team members to Barbara Conroy.
  - much will depend on '94 Ramp Up!
- Reviewed Status of Algorithms
- Discussed proposed development plans within the current funding cycle with some projections to '93, '94 field campaigns

## General Observation.

- Mounting Burden on Team Members to respond on a wide range of issues.
- Funding levels currently prohibit taking on additional manpower/womanpower to respond as effectively as we would like.  
(clear need for more meetings!)
- Possibly Reduce Team Meetings to 2 Days for Plenary Issues

## Geometry

We have stated our requirement to the project.  
We will continue to refine the requirements.

However, the Project response has not been substantive.

- Instrument & Platform seem willing to work with the problem but the project appears to be **less** responsive. MISR has had the same experience
- MODLAND-MISR to approach IWG as an input to the project. Separate requirements + joint cover letter to IWG.
- MCST mandated to pursue the issue with the Platform and Instrument Engineers
- Townshend to give joint response from MODLAND to Questionnaire.

## Topographic Data Requirements

NO response from EOSDIS following our last meeting and request.

- Statement of Requirements for MODLAND Muller/EDC/Teillet
- Joint MODIS/MISR/ASTER statement to the IWG, Project, Program Scientists concerning the priority of topographic data for EOS instruments

## MODIS LAND Plenary Issues:

Oer'

- Seattle Payload - MODIS T v. MISR
  - ASTER / Enhanced TM
  - am and pm MODIS N
  
- Response to Spec. Questionnaire
  1. Band to Band - Require Vis/ N IR /SWIR all @ .1
    - Can tolerate LWIR @ .2
  2. Can change 300 to 335 but would like linear temp not radiance
  3. Need Ch# 29 @ .05
  4. Can reduce Band 6 to 275 at Ltyp.
  
- However: we believe scene to scene registration to be a key issue and need to examine ways to improve the spec from 1 pixel at 500m to .2 of a pixel. The issue is complex involving instrument, platform and ground segments. The instrument / platform constraints need to be better documented for the land team and we need to start making comparisons of on board v. ground processing costs of fixing the problem of inadequate multitemporal misregistration. The team will continue to build the case for this critical requirement. We would like to see the project help in resolving this issue.
  - e.g examine the possibility of improved pointing knowledge through MISR 240m data.
  
- A topographic DEM is still a pre-launch requirement for MODIS N data correction. We would like some indication from EOS-DIS what their current plans are to meet the overall requirement for EOS and in particular for MODIS. We will continue to clarify our requirements.



## Team Leader Computing Facility

Further discussion required: however, we need

- improved clarity as to what the TLCF will provide for us as the project develops
- would like to see short-term response to team member needs with respect to MODIS simulation and algorithm development

## Ancillary Data Needs are Evolving

- focus for next MODLAND Meeting

## Calibration Group Interaction

- Huete, Wan - Calibration Liaison
- Vanderbilt, Muller(?) - Advisor, Peer Review
- SO<sub>2</sub> absorption effects from volcanoes, cities

## Reporting

- Quarterly Progress Reports of Land Team members to be sent to Land Team members

## Peer Review

- continuing Process
- formal external review process is premature
- is currently underway as bottom-up approach
- will provide more formal proposal at next meeting

## Inter-Instrument Liaison Structure

- top-down approach needed
- these issues will have increasing importance  
e.g. format for joint petition to project.  
Discussion & Specs. e.g. spatial resolution

## MCST Activities

- closer integration of MCST & Team Member activities
  - MCST support is essential to land community
  - concerned with current MCST burden with respect to resources
  - need input on priority for MCST activities.
- Utility algorithms integral to land product

## Cloud Masking

Inter-Instrument Issue - meeting in Canada

- CERES/MODIS/MISR

## Data Products

- no major changes to land product list
- possible changes with Budget Constraints
- minor changes will be submitted
- let's go electronic!



## Test Sites

- Work continues -
- Concept Expands to EOS
  - DAAC EDC Advisory
  - Landat Pathfinder Stream 3.

# MODIS Land Group Plenary Session (4/16/92)

## Specs

1. need to evaluate proposed changes
  - Tanre/Kaufman (atmospheric correction)
  - Slater/Heute (impact on land bands)
  - Wan (thermal)
  
2. 3.75micron. Visible calibration  
(Barnes/Kaufman/Slater)
  
3. MTF for Bands 1 & 2 are different. MCST  
should be mandated to providing a statement on  
land sensing.
  
4. Thermal. Relative Calibration accuracy is  
0.5%. Would prefer 0.3% Wan/Barnes